

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

LISTING OF CLAIMS:

1. (Currently Amended) A medical pump monitoring system which administers medical fluids and the like for a patient using a plurality of medical pumps, and monitors flows of delivered fluids and alarm information of the medical pumps by wired communication and/or wireless communication, the medical pump monitoring system comprising:
 - a control unit;
 - a display unit;
 - an infusion circuitry creating unit for creating infusion circuitry data defining connection conditions of infusion lines from the plurality of medical pumps, and administration passes and/or administration positions for the patient;
 - said control unit controlling said display unit to display the created infusion circuitry data with information from the plurality of medical pumps connected according to the created infusion circuitry data, in a pump information display area on a monitor screen of said display unit according to operations from an operator of the medical pump monitoring system; and
 - the pump information display area including,
 - an area for displaying respective operation conditions of different ones of the medical pumps in a visually distinguishing manner, wherein at least a normal operation condition is visually indicated in a first manner by green color, an alarm

condition is indicated ~~in a second manner~~ by red color which is visually distinguishable from the first manner green color, an interruption of the administration operation is indicated ~~in a third manner~~ by yellow color which is visually distinguishable from the first ~~and second manners~~ green color and the red color, and a condition where the medical pump is not connected is indicated ~~in a fourth manner~~ by grey color which is visually distinguishable from the first, second and third manners green color, the red color and the yellow color,

areas for displaying respective flow amounts of the medical pumps,
areas for displaying respective alarm information for medical pumps,
areas for displaying respective administered drug information for medical pumps, and

an area for displaying the infusion circuitry for delivery medical fluids to the patient according to the created infusion circuitry data.

2. (Previously Presented) The pump monitoring system according to claim 1, further comprising,

a reading unit for reading an infusion circuitry diagram, including a handwritten diagram, in the medical pump monitoring system,

wherein, the infusion circuitry data to be displayed on the monitor screen during operation of the medical pump monitoring system is selected from the data created by the infusion circuitry creating unit and the data read by reading unit, according to the operation from the operator.

3. (Previously Presented) The medical pump monitoring system according to claim 1, wherein said infusion circuitry creating unit displays a diagram of the patient to receive the administration position for the patient from the operator.

4. (Previously Presented) The medical pump monitoring system according to claim 1, wherein said infusion circuitry creating unit further comprises a determination unit for determining whether or not the infusion line is suited to a practical method for transfusion.

5. (Previously Presented) The medical pump monitoring system according to claim 1, wherein said infusion circuitry creating unit selects an optimal pump arrangement pattern from a plurality of pump arrangement patterns registered in advance.

6. (Previously Presented) The medical pump monitoring system according to claim 4, wherein said determination unit determines whether or not a loop-shaped line in the infusion line exists, and if so, gives an alarm to the operator.

7. (Previously Presented) The medical pump monitoring system according to claim 4, wherein said determination unit determines whether or not two or more of the infusion lines are directly connected to a single medical pump, and if so, gives an alarm to the operator.

8. (Previously Presented) The medical pump monitoring system according to claim 4, wherein said determination unit determines whether or not the infusion line is ended at some midpoint without reaching the patient, and if so, gives an alarm to the operator.

9. (Previously Presented) The medical pump monitoring system according to claim 4, wherein said determination unit determines whether or not the infusion line is formed towards at least one position of the patient from the medical pump, and if so, gives an alarm to the operator.

10. (Previously Presented) The medical pump monitoring system according to claim 4, wherein said determination unit determines whether or not the infusion line inserted into a specified portion of the patient is inserted into the patient again, and if so, gives an alarm to the operator.

11. (Previously Presented) The medical pump monitoring system according to claim 4, wherein said determination unit determines whether or not the infusion line from the operating medical pump is not connected to the patient, and if so, gives an alarm to the operator.

12. (Previously Presented) The medical pump monitoring system according to claim 1, wherein the monitor screen displays thereon real-time states or trends in arbitrary time ranges for at least any one of the amount of water, the urinary volume and the amount of electrolytes.

13. (Withdrawn) A controlling method for a medical pump monitoring system using a plurality of medical pumps to administer medical fluids and the like for a patient, monitoring flows of delivered fluids and alarm information of the medical pumps through cable communication and/or wireless communication, comprising:

an infusion circuitry creating step of setting/changing the connection conditions of infusion lines from the plurality of medical pumps, and administration passes and/or administration positions for the patient; and

a step of making it possible to display infusion circuitry data created in the infusion circuitry creating means on a monitor screen by operations by an operator of the medical pump monitoring system.

14. (Withdrawn) A computer readable memory storing therein program codes for controlling a medical pump monitor system using a plurality of medical pumps to administer medical fluids and the like for a patient, monitoring flows of delivered fluids and alarm information of the medical pumps through cable communication and/or wireless communication, comprising program codes of: an infusion circuitry creating step of setting/changing the connection conditions of infusion lines from the plurality of medical pumps, and administration passes and/or administration positions for the patient; and a step of making it possible to display infusion circuitry data created in the infusion circuitry creating means on a monitor screen by operations by an operator of the medical pump monitor system.

15. - 24. (Canceled)